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A colon after initial designates the most common given name, as: A: Augustus; B: Benjamin; C: Charles; D: David; E: Edward; F: Frederic; G: George; H: Henry; I: Isaac; J: John; K: Karl; L: Louis; M: Mark; N: Nicholas; O: Otto; P: Peter; R: Richard; S: Samuel; T: Thomas; W: William. The initials at the end of each record, or note, are those of the recorder.

Corrections of errors and notices of omissions are solicited.

**Erauer, Friedrich.** On the metamorphoses of *blepharoceridae*. (Entom. mo. mag., Jan. 1881, v. 17, p. 186.)

Note calling attention to author's "Eine unbewusste Entdeckung Fritz Müller's" (Zool. anzeiger, 22 Meh. 1880, Jahrg. 3, p. 131-135) [Rec. 1855]; both sexes of *blepharocera fasciata*, of Europe, have the eyes close to each other. B: P. M. (3455)

**Buckler, W.** Is the number of moults of lepidopterous larvae constant in the same species? (Entom. mo. mag., July 1880, v. 17, p. 42-43.)

Remarks on the variety of the number of molts undergone by larvae of different species of lepidoptera, with solicitation of observations to prove whether the number varies in the same species. B: P. M. (3450)

**Cameron, P.** On parthenogenesis in the *tenthredinidae*. (Entom. mo. mag., May 1881, v. 17, p. 271-272.)

*Nematus pavidus* and *toxonus glabratus* added to the list of parthenogenetic *tenthredinidae*, and complete parthenogenesis proved to occur in *poecilosoma pulverulum* and *eriocampa ovata*, all Scotch species. B: P. M. (3457)

**Champion, G. C.** Notes from Guatemala. (Entom. mo. mag., Feb. 1881, v. 17, p. 212-213.)

Mention of localities visited and of genera of insects encountered by the author in Guatemala. B: P. M. (3458)

**Eaton, Alfred Edwin.** An announcement of new genera of the *ephemeridae*. (Entom. mo. mag., 1881, v. 17: Jan., p. 191-192; Feb., p. 193-197.)

Describes as new genera of *ephemeridae*: *clausoneuria*, *spaniophlebia*, *homoconcuria*, *jolia*, *rhoneanthus*, *blasturus*, *diatrophlebia*, *adenophlebia*, *choroterpes*, *thraulus*, *habrophlebia* and *callibactis*, and restricts the genera *leptophlebia* and *bactis*; *asthenopus* = *camysurus*; mentions the type species of each genus and describes 5 new species, of which *homoconcuria salviniac* is from Central America. B: P. M. (3459)

**Fletcher, J. E.** On parthenogenesis in *tenthredinidae*. (Entom. mo. mag., Jan. 1881, v. 17, p. 180.)

Statement of results of parthenogenetic reproduction observed in *phyllostoma vagans*, *eriocampa ovata*, *hemichrou rufa* and *nematus cartispina* and in two other species, not yet determined, of *tenthredinidae*. B: P. M. (3460)

**Forbes, Stephen Alfred,** see ILLINOIS STATE LABORATORY OF NATURAL HISTORY—Director, 1881-1882.

**Goossens, Théodore.** Des chenilles urticantes et quelques considérations sur l'utilité des œufs pour la classification. (Ann. soc. entom. France, 1881, s. 6, t. 1, p. 231-236.)

Abstr., entitled, "Jeukende rupsen." (Natura, March 1883, jahrg. 1, p. 83-85.)

Considers that the spines of *liparis* and *cnethocampa* are poisonous because of a powder produced by the drying of the secretion given out by the evaginable glands found upon the dorsum of these larvae; experiments made with this poisonous powder; discusses the position of *cnethocampa* among the lepidoptera; remarks on the use of the characters of their eggs in the classification of lepidoptera. G: D. (3461)

**Hagen, Hermann August.** Ueber ein eigenthümliches organ in der Begattungstasche zweier tinciden und dessen bedeutung für die befruchtung. (Zool. anzeiger, 9 Jan. 1882, jahrg 5, p. 18-21.)

Anatomy of the genitalia, and especially of the vesicula seminalis, in *prodexus* and *pronuba*. G: D. (3462)

**Horn, G. H.** Synopsis of the *colydiidae* of the United States. (Proc. Amer. philos. soc., 19 April 1878, v. 17, p. 555-592.)

Includes the genera and species of *murmidiidae*. S: H.

Describes 15 new species belonging to the genera *cicones*, *ditoma*, *endophloeus*, *phloconemus*, *coxelus*, *lascionotus*, *antonium*, *oxylaemus*, *soxytus*, *pycnomerus*, *bothrideres* and *philothermus*. H: W. T. (3463)

**Kane, W. F. de Vismes.** Causes of abundance or otherwise of lepidoptera. (Entomologist, Nov. 1882, v. 15, p. 245-246.)

Effects of weather on the abundance of lepidoptera; observations made in England. G: D. (3164)

**Kellicott, D. Simons.** An example of protective mimicry. (N. A. entomologist, Oct. 1879, v. 1, p. 30-31.)

Notes the habit of the imago of *rhodophora florida* of lying concealed in the withering flowers of *oenothera biennis*, which it closely resembles in coloration. The larvae, which feed on the flowers and fruit of the same plant, are also protectively colored. H: T. (3465)

**Die Kerchove de Denterghem, Oswald.** L'ennemi de la pomme de terre. Notice sur le *doryphora decemlineata*. Bruxelles, 1875, t.-p. cover, 21 p., 1 col. pl. v. 25×16.5, t. 18.5×10.8. pam., 2 fr.

Statistical notes upon *doryphora decemlineata*; means taken by various European governments to prevent its introduction, and a discussion of the necessity of precautions; other notes; colored figures of different stages of *d. decemlineata*, and figure of imago of *d. juncta*. G: D. (3466)

**Kraepelin, K.** Ueber die mundwerkzeuge der saugenden insecten. Vorläufige mittheilung. (Zool. anzeiger, 6 Nov. 1882, jahrg. 5, p. 574-579.)

Discusses anatomy of sucking mouth-parts of insects; describes and figures the mouth-parts of *bombus terrestris*, *notonecta glauca* and a species of *tabanus*. G: D. (3167)

**Krancher, L., ed.,** see DEUTSCHER BIENENFREUND . . . [Rec., 2816].

**Krukenberg, C. Fr. W.** Vergleichend-physiologische studien. 5e abth. Heidelberg, 1881, 100 p., 3 pl.

Rev., by P. Mayer, (Zool. jahresber. für 1881, 1882, p. 3.)

Discussion of the chemical composition of and action of reagents on the blood and organs of insects. — P. Mayer. [Not seen.] B: P. M. (3168)

**La Munyon, Ira W.** New hymenoptera. (Proc. Nebraska assoc. advanc. sci., 8 March 1877.)

Separate. [North Platte, Nebr.] [2] p., 1 14.2×8.5.

Describes *davisania* n. g., *d. anghei* n. sp., *trypoxylon sulcus* n. sp. [Separate only scen.] B: P. M. (3460)

**La Munyon, Ira W.** New orthoptera. (Proc. Nebraska assoc. advanc. sci., 8 Mar. 1877.)

Separate. [North Platte, Nebr.] [1] p., 1 14.2×8.5.

Describes *pezotetix* [sic] *flavoannulatus* n. sp., *colaptenus sanguinocephalus* n. sp. [Separate only scen.] B: P. M. (3470)

**Lankester, E. Ray.** *Limulus* an arachnid. (Quart. journ. micros. sci., 1881, v. 21: July, p. 504-548; Oct., p. 609-649; pl. 28-29.)

Abstract, by P. Mayer. (Zool. jahresber. für 1881, 1882, p. 5-6.)

Gives a genealogical tree of arthropoda (copied by Mayer), and discusses the homologies of their segments, appendages, tracheae and sinews, defines the arachnida. [not scen.] — P. Mayer. B: P. M. (3471)

**Lichtenstein, Jules.** Another apterous male in the *coccidae*, *acanthococcus aceris*. Signoret. (Entom. mo. mag., April 1882, v. 18, p. 250-251.)

Brief account of the life history of *acanthococcus aceris*, of which the male is wingless. G: D. (3472)

**Lintner, Joseph Albert.** On *ccidomyia leguminicola*, n. sp. (Can. entom., July 1879, v. 11, p. 121-124.)

References to accounts of *ccidomyia* injuring leaves of *trifolium* in Europe; substitution of name *c. leguminicola* n. sp. for the preoccupied name *c. trifolii* given in author's "The clover-seed fly" . . . (op. cit., Mch. 1870, p. 41-45) [Rec., 3471]; seasons, history and geographical distribution of *c. leguminicola*; description of imago. B: P. M. (3473)

**Lintner, Joseph Albert.** The clover-seed fly: a new insect pest. (Can. entom., Mch. 1879, v. 11, p. 44-45.)

Review, in author's "On *ccidomyia leguminicola*, n. sp." (op. cit., July 1879, p. 121-124.)

Habits and ravages and description of larva of *ccidomyia trifolii* n. sp. [The name *c. leguminicola* afterward substituted (p. 121), as the name *c. trifolii* was preoccupied.] B: P. M. (3471)

**Llewellyn, J. T. D.** Results of experiments in rearing *tephrosia crepuscularia* and *biundularia*, with regard to variation. (Entom. mo. mag., May 1882, v. 18, p. 274.)

Results of interbreeding varieties of *tephrosia crepuscularia* and *t. biundularia* in order to obtain specimens of varieties. G: D. (3475)

**Ludwig, Fritz.** Ueber die bestäubungsvorrichtung und die fliegenfalle des hunds-kohles, *apocynum androsacmifolium* L. (Kosmos, Dec. 1880, bd. 8, p. 182-185.)

Abstract, by H. Müller, under same title. (Bot. zeitung, 1 Apr. 1881, bd. 39, c. 213-214.)

Abstract, by H. Müller, entitled "Die bestäubungseinrichtung von *apocynum androsacmifolium* L." (Bot. jahresbericht . . . Just. 1879, v. 7, p. 140, 8 cm.)

Describes the structure of the flowers of *apocynum androsacmifolium*, and their cross-fertilization by *apis* and large *syphidae*. Small *syphidae* and *muscidae* are unable to remove the pollen masses, and are held prisoners in the flowers. H: T. (3476)

**McCook, H. Christopher.** On the architecture and habits of the cutting ant of Texas, *atta ferrens*. (Annals and mag. nat. hist., July 1879, s. 5, v. 3, p. 442.)

"The cutter [*atta ferrens*] grasps the leaf with outspread feet and makes an incision at the edge by a scissor-like motion of her sickle-shaped toothed mandibles. She gradually revolves, steadily cutting as she does so, her mandibles thus describing a circle or the greater portion thereof." *R. H.* (3477)

**McDonald, G. L.** Peculiar mistake of *dytiscus marginalis*. (Entomologist, Nov. 1883, v. 16, p. 263-264.)

*Dytiscus marginalis* probably mistakes the glassy surface of a greenhouse for water. *G. D.* (3478)

**McLachlan, Robert** Discovery of the winged form of *Prosofistoma punctifrons*. (Entom. mo. mag., July 1880, v. 17, p. 46.)

*Prosofistoma punctifrons* bred to the sub-imago state by A. Vayssière, and proved to be one of the *ephemeridæ*. *B. P. M.* (3479)

**McLachlan, Robert.** A monographic revision and synopsis of the trichoptera of the European fauna. Lond. *Z. Van Voorst*, 1874-1880. [9 parts, each with t.-p. cover] t.-p., 4+523+[Suppl., appendix and indices] 103 p., 59 pl.+t.-p., 26X16, t. 20X11.5 £3, 8s.

Rev. (Berkau's Bericht . . . der entomologie, 1873-1874, p. 180-181; 1875-1876, p. 278-280; 1877-1878, p. 382-385; 1879, p. 158-163.)

Rev., by H. A. Hagen. (Zool. jahresbericht, 1879, p. 580-581; 1880, abtheil. 2, p. 228-230.)

Rev., by M. Rostock. (Entom. nachrichten, 15 Oct. 1880, jahrg. 6; Lit. rev., p. 72.)

General structure of trichoptera; generic and specific characters, and notes on mode of preservation in collections; descriptions, classification, synonymy, habits and habitats of the European species; supplement, containing additional notes made while the work was in progress; appendix consisting of a systematic catalog of the trichoptera of Europe and a discussion of their geographical distribution; index of genera and of species. *G. D.* (3480)

**McLachlan, Robert.** A North American species of *dilar*. (Entom. mo. mag., Aug. 1881, v. 18, p. 55.)

Describes *dilar americanus*, a new species from Kentucky. *G. D.* (3481)

**McLachlan, Robert.** *Prosofistoma punctifrons*. (Entom. mo. mag., Oct. 1880, v. 17, p. 117.)

Denial of "the former possession of an opinion that the insects [*prosofistoma punctifrons*] might be an ephemerid suited for a continuous aquatic life." *B. P. M.* (3482)

**McLachlan, Robert.** On two new *panorpidæ* from western North America. (Entom. mo. mag., July 1881, v. 18, p. 36-38, 2 fig.)

Describes *bittacus chlorostigma* (from Cal.) and *panorpidæ origonensis* (from Oreg.), 2 new species, and figures their abdominal appendages. *G. D.* (3483)

**McRae, W.** Prolonged existence of ichneumon in pupa. (Entomologist, Aug. 1883, v. 16, p. 188-189.)

An ichneumonid remained in the pupal state two years beyond the normal time. *G. D.* (3484)

**McRae, W.** Retarded development of *saturnia carpinii*. (Entomologist, June 1882, v. 15, p. 131-132.)

A female of *saturnia carpinii* emerged in April 1882, from a cocoon made in 1870; this female seemed to be entirely unattractive to males of the same species. *G. D.* (3485)

**McRae, W.** Retarded emergence of *sphinx ligustri*. (Entomologist, Aug. 1883, v. 16, p. 187.)

A specimen of *sphinx ligustri* remained in the pupal state, in a fern-case kept indoors, from Sept. 1881 to April 1883. *G. D.* (3486)

**Mann, B. Pickman.** Bibliography of some of the literature concerning destructive locusts. (2d rept. U. S. entom. commission, for 1878 and 1879, 1880: Appendix 4, p. 33-50.)

Separate, author's ed., including [C. Thomas'] "Supplementary list" (*op. cit.*, p. 50-55) and [C. Thomas'] "Additions to bibliography on the locusts of America" (*op. cit.*, p. 55-56), with above title. [Wash.], 1880 [18 Meh. 1881].  $\frac{1}{2}$ -t.-p. cover +  $\frac{1}{2}$ -t.-p. + p. 33-56. 24 X 16. [Rec., 3291 s.]

List of writings on destructive *acridioidæ* of Europe, Asia and Africa, with partial analyses of contents. *B. P. M.* (3487)

**Martini, W.** Spannadeln. (Entom. nachrichten, 1 May 1881, jahrg. 7, p. 144.)

Description of a form of needle suitable for use in spreading lepidoptera. *G. D.* (3488)

**Meinert, Fr.** Fluernes munddele. Trophi dipterorum. Paa Carlsberg-fondets bekostning. Kjøbenhavn. *H. Hagerup*, 1881. t.-p. cover, t.-p., 91 p., 6 pl., 27 X 21, t. 10 X 14.2.

Historical and general remarks on the trophi of diptera; more detailed description, with figures, of those parts in *Culex*, *Simulium*, *Miastor*, *Oligarces*, *Tipula*, *Limnobia*, *Dilophus*, *Tabanidæ*, *Subula*, *Therwa*, *Leptis*, *Empis*, *Asilus*, *Myopa*, *Stratiomys*, *Dolichopus*, *Scæva*, *Rhingia*, *Cristalis*, *Stomoxys*, *Musca*, *Mesembryna*, *Ephydra*, *Gastros*, *Melophagus*, and *Nycteribia*. The summary of general conclusions and explanation of the plates are in latin. *G. D.* (3489)

- Melchert, G.** Einige vorschläge zur präparation. (Entom. nachrichten. 1 June 1880, jahrg. 6, p. 116-117.)  
Discusses pinning insects and packing them for transportation. *G: D.* (3400)
- Melville, J. Cosmo.** Cannibalism in *Pieris crataegi*. (Entomologist, Jan. 1883, v. 16, p. 15-16.)  
A number of individuals of *Pieris crataegi* seen sucking out the juices of a fallen comrade. *G: D.* (3491)
- Members, O. W. U.** [*pseud.*]. Insects on the Halifax. (Florida agriculturist, 13 July 1881, v. 4, p. 65, col. 3-4, 16 cm.)  
Statement concerning the domestic insect fauna at Ormond, Fla. *B: P. M.* (3492)
- [**Metallic casts of beetles.**] (Amer. nat., Nov. [28 Oct.] 1881, v. 15, p. 933-934.)  
Description of process for taking metallic casts of insects. *G: D.* (3493)
- Möschler, Heinrich B.** Beiträge zur schmetterlings-fauna von Surinam. [I.] (Verhandl. k.-k. zool.-bot. gesells. zu Wien, 1876, bd. 26; Abh., p. 293-352, pl. 3-4.)  
Notes on lepidoptera from Surinam, South America, some of the species being also found in North America. Describes new species but no new genera. *G: D.* (3494)
- Möschler, Heinrich B.** Beiträge zur schmetterlings-fauna von Surinam. II. (Verhandl. k.-k. zool.-bot. gesells. zu Wien, 1877, bd. 27; Abh., p. 629-700, pl. 8-10.)  
Notes on lepidoptera from Surinam, South America, some of the species being also found in North America. Describes the following new genera: *campyloia*, *eudolice*, *eulimacodes*, *eulephopteryx*, *euvoga*, *lepusia*, *phedusia*, *pseudopistosis*, *pseudoneuron*, *pseudodryas*, *senia*, *sychesia* and *tricypha*. *G: D.* (3495)
- Möschler, Heinrich B.** Beiträge zur schmetterlings-fauna von Surinam. III. (Verhandl. k.-k. zool.-bot. gesells. zu Wien, 1880, bd. 30; Abh., p. 379-486, pl. 8-9.)  
Notes on lepidoptera from Surinam, South America, some of the species being also found in North America. Describes the following new genera: *adrymon*, *amabelia*, *amphodia*, *arbinia*, *arctinia*, *bacilia*, *buphana*, *cladonia*, *clupra*, *daedalina*, *erioscele*, *gabyna*, *gonuris*, *mintura*, *pluconia*, *synyra*, *synalissa* and *thelidora*. *G: D.* (3496)
- Möschler, Heinrich B.** Beiträge zur schmetterlings-fauna von Surinam. IV. (Verhandl. k.-k. zool.-bot. gesells. zu Wien, 1881, bd. 31; Abh., p. 393-442, pl. 17-18.)  
Notes on lepidoptera from Surinam, South America, some of the species being also found in North America. Describes the following new genera: *blechroma*, *diastema*, *ligonia*, *linosta*, *tiopasia*, *neophrida*, *pilenta*, *singamia* and *tanyodes*. *G: D.* (3497)
- Möschler, Heinrich B.** Beiträge zur schmetterlings-fauna von Surinam. v. Supplement. (Verhandl. k.-k. zool.-bot. gesells. zu Wien, 1882, bd. 32; Abh., p. 303-362, pl. 17-18.)  
Notes on lepidoptera from Surinam, South America, some of the species being also found in North America. Describes the following new genera: *alimera*, *antiora*, *asyloca*, *charmodia*, *gonippa*, *lysana*, *phiditia*, *pyrateria*, *strophoverus*, *talmentia*, *thigona* and *ulania*. *G: D.* (3498)
- Murfeldt, Mary Esther.** Rose-feeding *tortricidae*. The rose leaf-tyer. *peuthina cyanana*, n. sp. (Amer. entom., Jan. 1880, v. 3, n. s., v. 1, p. 14-15.)  
List of *tortricidae* injurious to roses; description of larva, pupa and imago and habits of and means against *peuthina cyanana* n. sp. *B: P. M.* (3499)
- Nusbaum, Joseph.** Zur entwickelungs-geschichte der ausführungsgänge der sexualdrüsen bei den insecten. (Zool. anzeiger, 27 Nov. 1882, jahrg. 5, p. 637-643.)  
On the development of the excretory ducts of the sexual glands of insects, based especially on a study of *Lipeurus bacillus*, *Goniocates holagaster* and *Blatta orientalis*. *G: D.* (3500)
- [**Riley, C. Valentine.**] Galls and gall-insects. (Amer. nat., May [16 Apr.] 1881, v. 15, p. 402-403.) (RILEY, C. V. Entomology . . . [May 1882], p. 402-403.)  
Notice of H. P. Bassett's "New species of *Cynipidae*" (Can. entom., Feb. 1881, v. 13, p. 51-57) Rec., 3357: *Cynips g.-californica* occurs on *Quercus douglasii*; its gall nourishes the coleopteron *Ozognathus cornutus*; habits of the latter; synonymy of both species. *B: P. M.* (3501)
- Saunders, E.** Notes on the hairs of hymenoptera. (Entom. mo. mag., Feb. 1881, v. 17, p. 201-202, fig. 1-3.)  
Descriptions and figures of hairs from the eyes of *Coelioxys* and the tibiae of *Andrena* and *Bombus*; *Hymenoptera mellifera* seem to differ from other Hymenoptera in having branched or plumose hairs; approximation of hairs to scales. *B: P. M.* (3502)
- Wilkinson, Clennell.** *Vanessa cardui* double brooded. (Entom. mo. mag., July 1880, v. 17, p. 43-44.)  
Record of occurrence of a second brood of *Vanessa cardui* in November, in South Wales, the first brood having occurred in August; remark, by C. G. Barrett, on this phenomenon as "an instinctive attempt at following up the habit of the species in a hotter climate." *B: P. M.* (3503)
- Witlaczil, Emanuel.** Zur Anatomie der Aphiden. Vorläufige Mittheilung. (Zool. Anzeiger, 15 May 1882, jahrg. 5, p. 239-241.)  
Outline of the general anatomy of aphidae. *G: D.* (3504)